

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

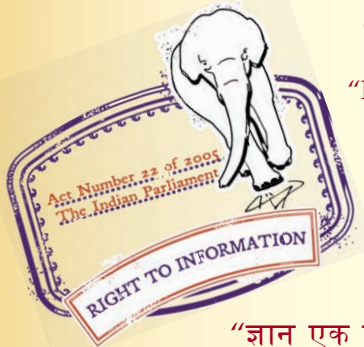
“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 11616 (1986): Avalanche, Rods for Mountaineering [PGD 27: Mountaineering Equipment]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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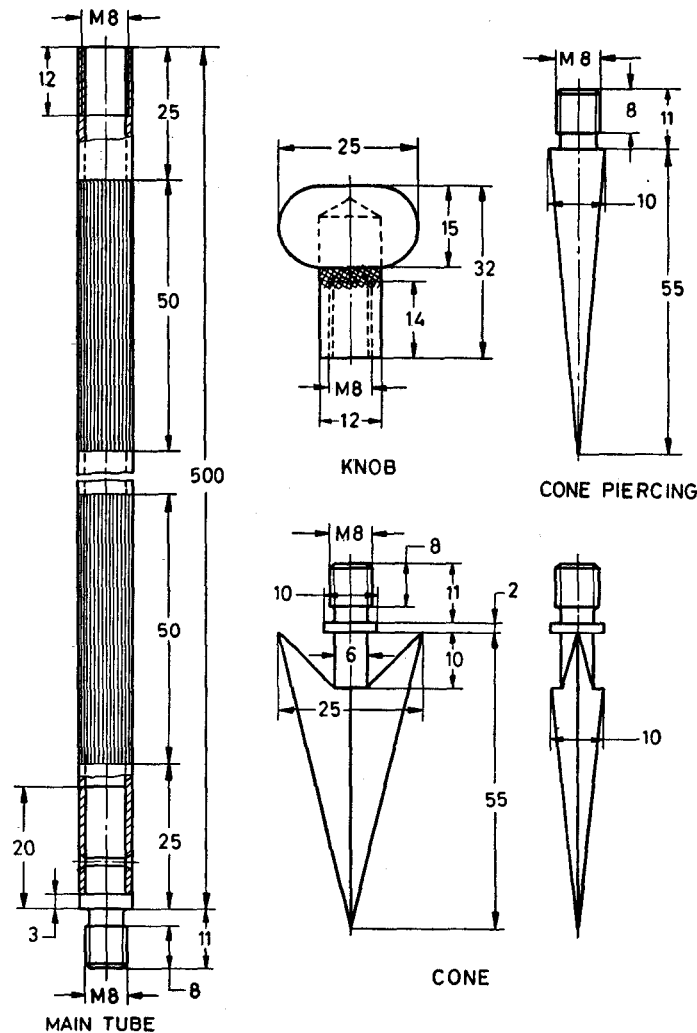




Indian Standard

## SPECIFICATION FOR AVALANCHÉ RODS FOR MOUNTAINEERING

1. **Scope** — Lays down the requirements for avalanché rods for mountaineering.
2. **Nomenclature** — As given in Fig. 1.
3. **Dimensions** — As given in Fig. 1.



All dimensions in millimetres.

FIG. 1 DIMENSIONS FOR AVALANCHÉ ROD

#### 4. Material

*Part*

*Material Specification*

Cone

Grade 24345 in 'WP' condition IS:733-1983 'Specification for wrought aluminium and aluminium alloy bars, rods, and sections (for general engineering purposes) (third revision)'.

Aluminium pipe

Grade 64430 in 'WP' condition IS:738-1977 'Specification for wrought aluminium and aluminium alloy drawn tube for general engineering purposes (second revision)'.

Adopted 21 March 1986

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Gr 1

## IS : 11616 - 1986

Wire holder	Grade CuZn 30 'Annealed' IS:4170-1967 'Specification for brass rods for general engineering purposes'.
Lug	Grade 64430 'WP' condition IS:733-1983.
Rivet	Grade 64430 in 'W' condition IS:740-1977 'Specification for wrought aluminium and aluminium alloy rivet stock for general engineering purposes ( <i>second revision</i> )',
Flexible wire	Steel wire rope (7×7) made from 0.3 mm dia galvanized steel wire tensile designation 1770. IS:1835-1976 'Specification for round steel wire for ropes ( <i>third revision</i> )'.
Aluminium nut	Grade 64430 'WP' condition IS:733-1983.
Steel hexagonal nut	Grade 11C10S25 'hot rolled' IS:4431-1978 'Specification for carbon and carbon-manganese free-cutting steel ( <i>first revision</i> )'.
Semi-threaded wire holder	Grade CuZn 30 'Annealed' IS:4170-1967.
Semi-threaded nut	Grade 11C10S25 'hot rolled' IS:4431-1978.
Rod	Grade 1 wire of IS:1673-1984 'Specification for mild steel wire cold heading quality ( <i>second revision</i> )'.

### 5. General Requirements

5.1 The main tube shall be manufactured from suitable tube and shall be internally threaded on one side and a plug shall be suitably welded on the other side so as to fit in the successive rods. The avalanché rods shall consist of 8 rods of 500 mm length, knob, cone and cone piercing.

5.2 The spikes shall be suitably forged.

5.3 The various parts of avalanché rods shall be given suitable anti-corrosive treatment.

6. **Mass** — The mass of the complete set of avalanché rods consist of 8 rods, knobs and points ( two ) shall be 1 400 g, *Max*.

7. **Tests** — The rod shall be assembled five times. The rod shall assemble smoothly and quickly and shall have no undue side to side play at joints. After assembling, the rod shall be kept upright with its cone on the ground and shall be shaken vigorously five times also that the upper portion sways to and fro. After the test the components shall not show any sign or damage or distortion.

8. **ISI Certification Marking** — Details available with the Indian Standards Institution.

## EXPLANATORY NOTE

While preparing the standard assistance has been derived from Metallurgical Investigation Report No. 2/85 on components of Avalanché Probe rods received from the Research & Development Organization, Defence Metallurgical Research Laboratory, Hyderabad.